

Figure 5 is a control circuit for the auxiliary power controller of the present invention; and

Please insert the following paragraph after line 18, page 6:

Figure 6 is a block diagram of an alternative embodiment in accordance with the present invention.

18 Please replace the paragraph beginning at line 5, page 13 with the following rewritten paragraph:

In an alternative embodiment the output of PWM 103 may be rectified by other output rectifiers such as a synchronous rectifier (cycloconverter) that provides an ac output signal at a frequency less than or equal to the frequency of the output of PWM 103. Other output circuits, including an inverter 601 (See Figure 6), that provide a welding current may also be used.

In the Claims:

Please cancel claims 1-24 and add the following new claims 25-39.

1 25. A welding, cutting or heating power source,
2 comprising:
3 an input rectifier configured to receive an ac input
4 and to provide a first dc signal;
5 a converter configured to receive the first dc signal
18 6 and to provide a converter output, and configured to receive
7 at least one control input;
8 an output circuit configured to receive the converter
9 output and to provide a welding, heating or cutting signal;
10 and
11 a controller, including a power factor correction
12 circuit, configured to provide at least one control signal
13 to the converter.

1 26. The apparatus of claim 25, further including an
2 auxiliary power source capable of providing a control power